

Fig. 1

FIG. 3

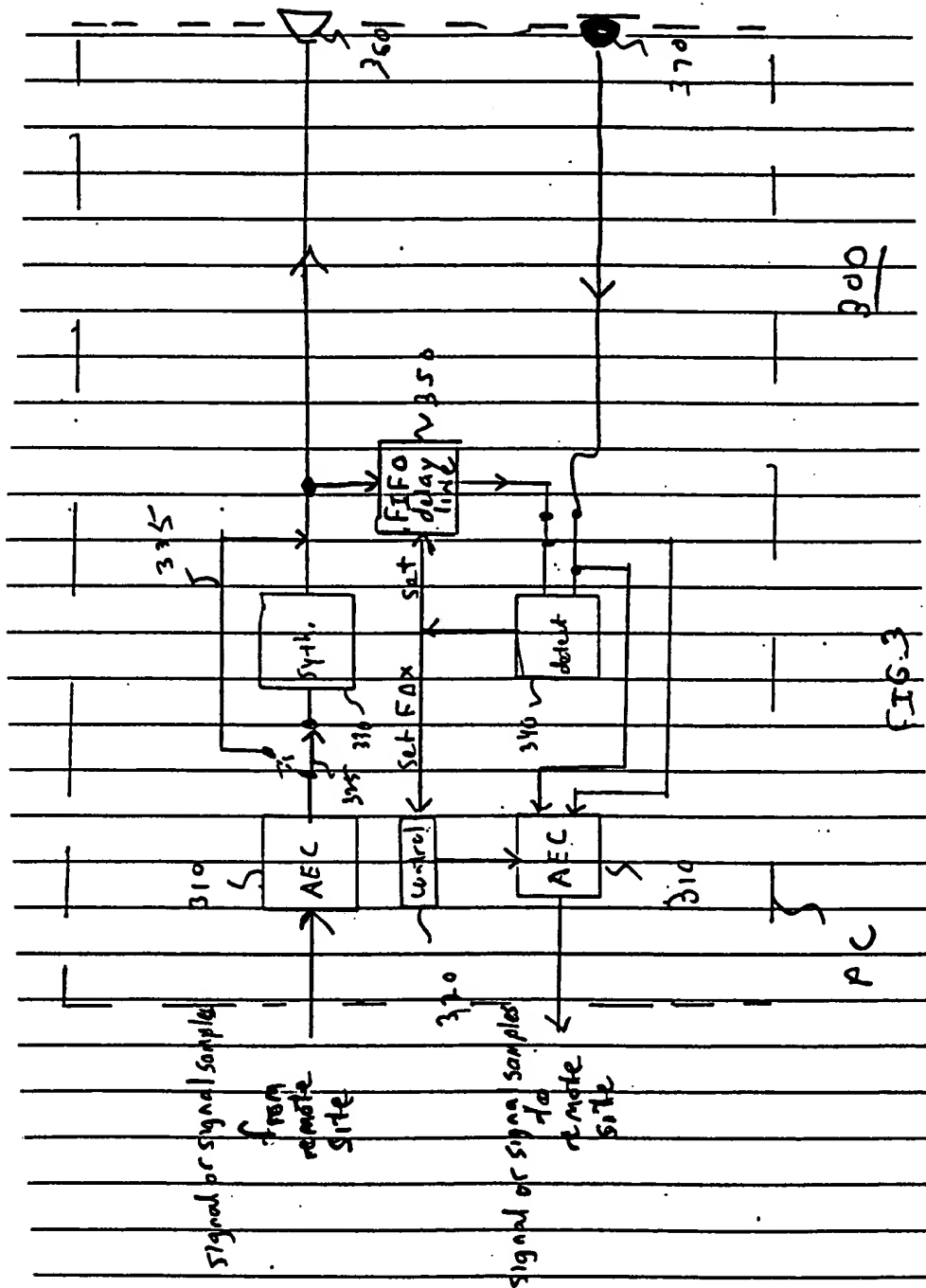


FIG. 3

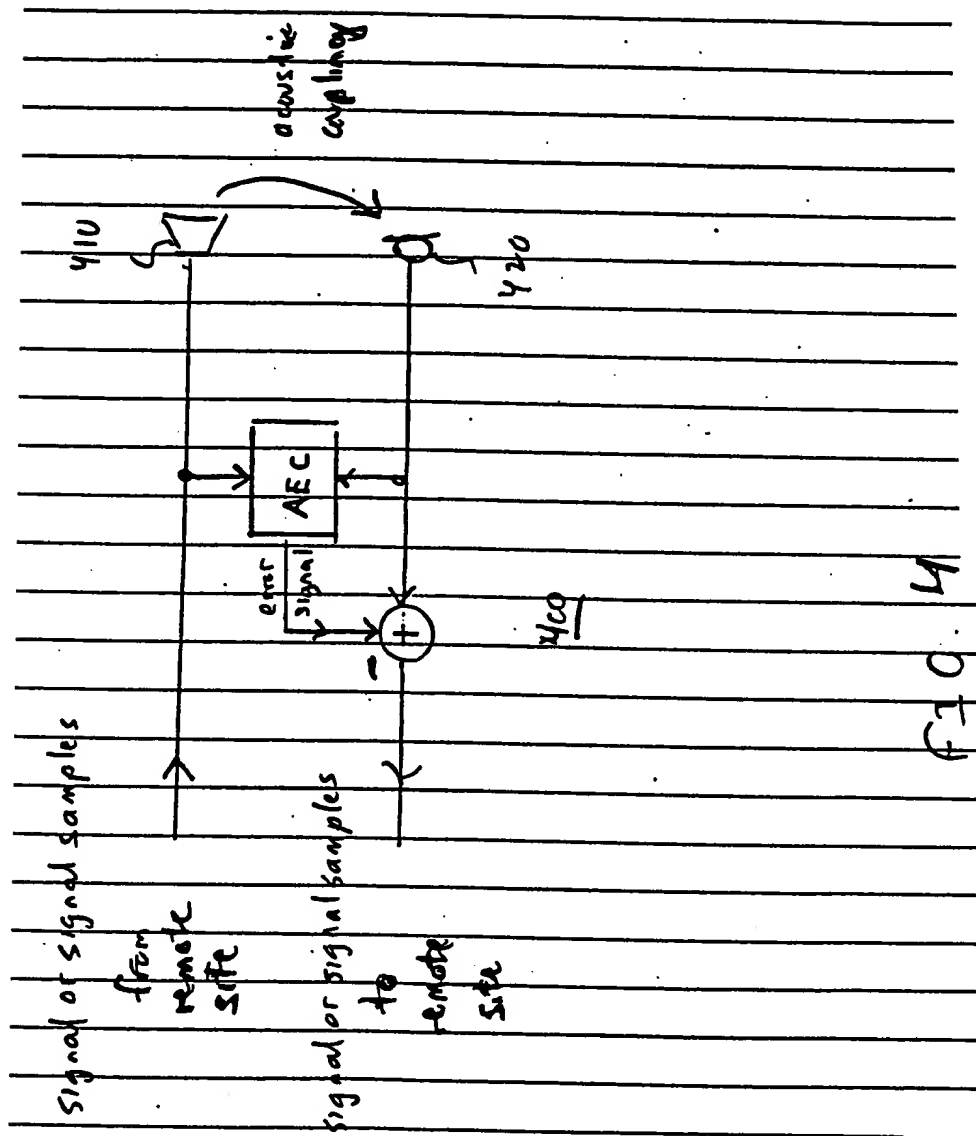


FIG. 4

505 START

510

Begin detecting predetermined waveform

515

Produce predetermined waveform in audio channel

520

Two signal sample streams propagate along two different paths in the computer

525

Does the detector detect one of the two signal sample streams?

YES

540

Detector begins counting signal samples arriving after detection of first signal sample stream

550

Does detector detect second signal sample stream?

YES

(A)

Reset

YES

Has time period t_1 elapsed?

NO

NO

Reset

545

YES

Has time period t_2 elapsed?

NO

NO

FIG. 5A

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Detector stops counting arriving
signal samples ~560

Adjust time delay in reference
channel based on signal sample
count by detector ~565

Remove ALC from signal
sample loop ~570

Begin full duplex operation
of speakerphone ~575

FIG. 5B

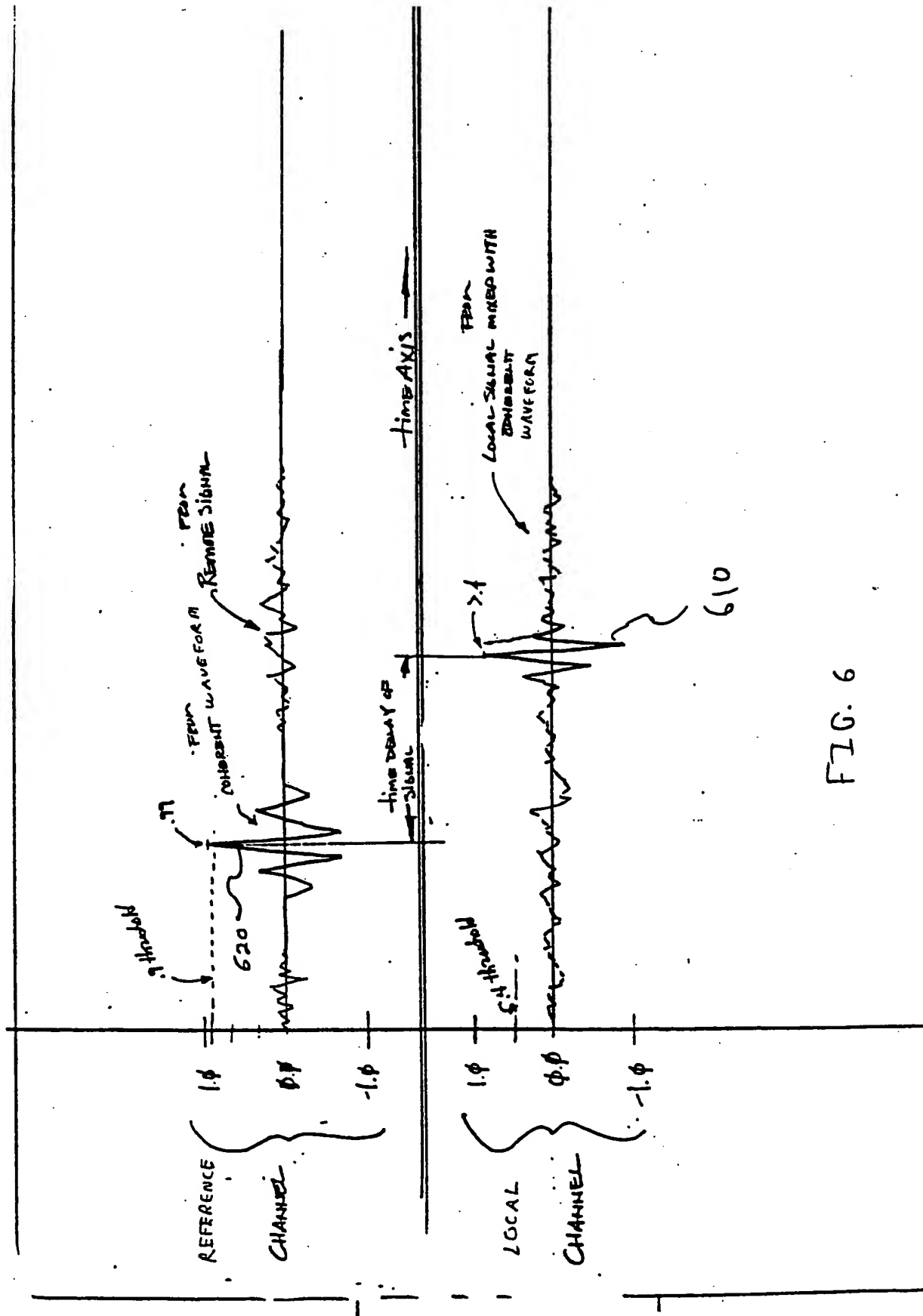


FIG. 6